User Manual

LED BEAM

7*15W 4in1

CE RoHS

KEEP THIS MANUAL FOR FUTURE NEEDS

1. Unpacking

Thank you for choosing our LED BEAM . For your safety, please read this manual before installing the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual well for future needs.

This Fixture is made of a new type of high temperature strength of engineering plastics and cast aluminum casing with nice outlook. The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live performances, theater, studio, nightclubs and discos.

4-IN-1 LEDs(RGBW) which features high brightness and stability. Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:

Moving Head----------One

Signal Cable----------One

Hanging Bracket----------One

Power Cable----------One

Safety Chain----------One

User Manual----------One

2. Safety Instructions

CAUTION!
Be careful with your operations. With a dangerous voltage you can Suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

Important:
Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.
This device falls under protection-class I. Therefore it is essential that the device be earthed.
The electric connection must carry out by qualified person.
The device shall only be used with rate voltage and frequency.
Make sure that the available voltage is not higher than stated at the end of this manual.
Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.
Always disconnect from the mains, when the device is not in use or before cleaning it.
Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.
Please don't project the beam onto combustible substances.
Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.
If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

3. Operation Instructions

-The moving head is for wash effect for on-site decoration purpose.
-Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
-This light should be keep away from strong shaking during any transportation or movement.
-Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
-Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.
-Make sure the installation place is in good safety condition before installing the fixture.
-Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
-Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
-Make sure the fixture is operated by qualified personnel who knows the fixture before using.
-Keep the original packages if any second shipment is needed.
-Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
-It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

4. Mounting and Installation

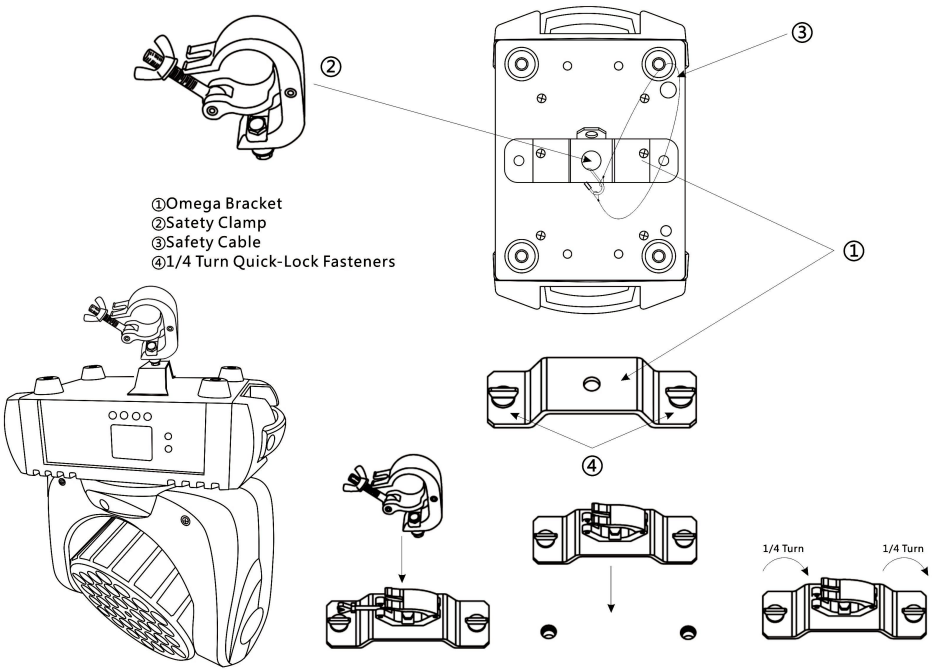
Cautions: For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personnel.
Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.
Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

Never stand directly below the device when mounting, removing, or servicing the fixture from a

periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

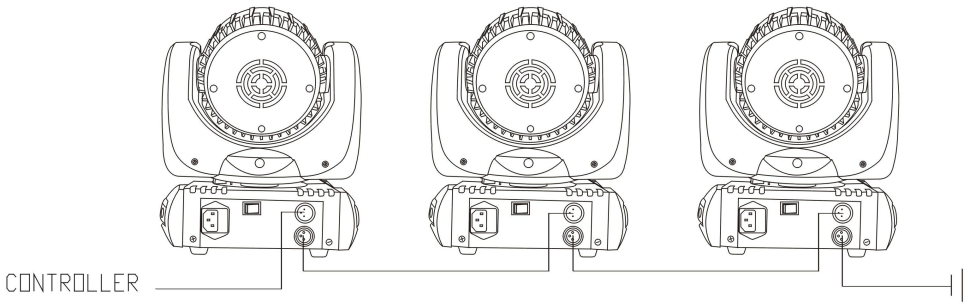
Clamp Mounting: The LEDBEAM provides a unique mounting bracket assembly that integrates the bottom of the base, the included “Omega Bracket,” and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the “omega bracket”. As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly



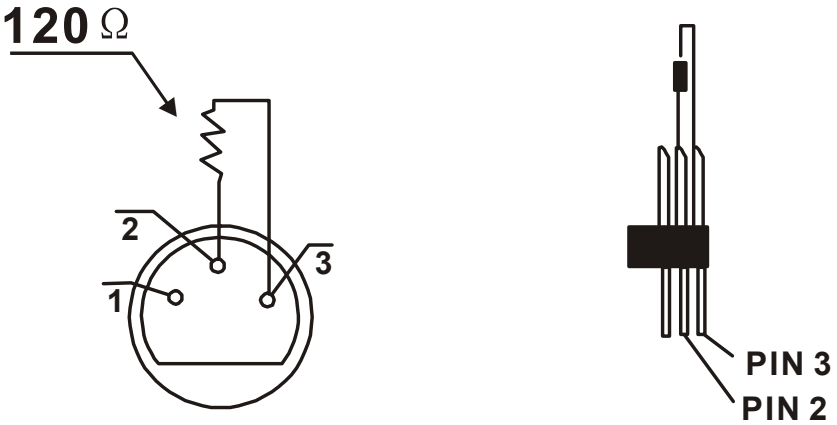
Regardless of the rigging option you choose for your LEDBEAM , always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

5. DMX-512 control connections

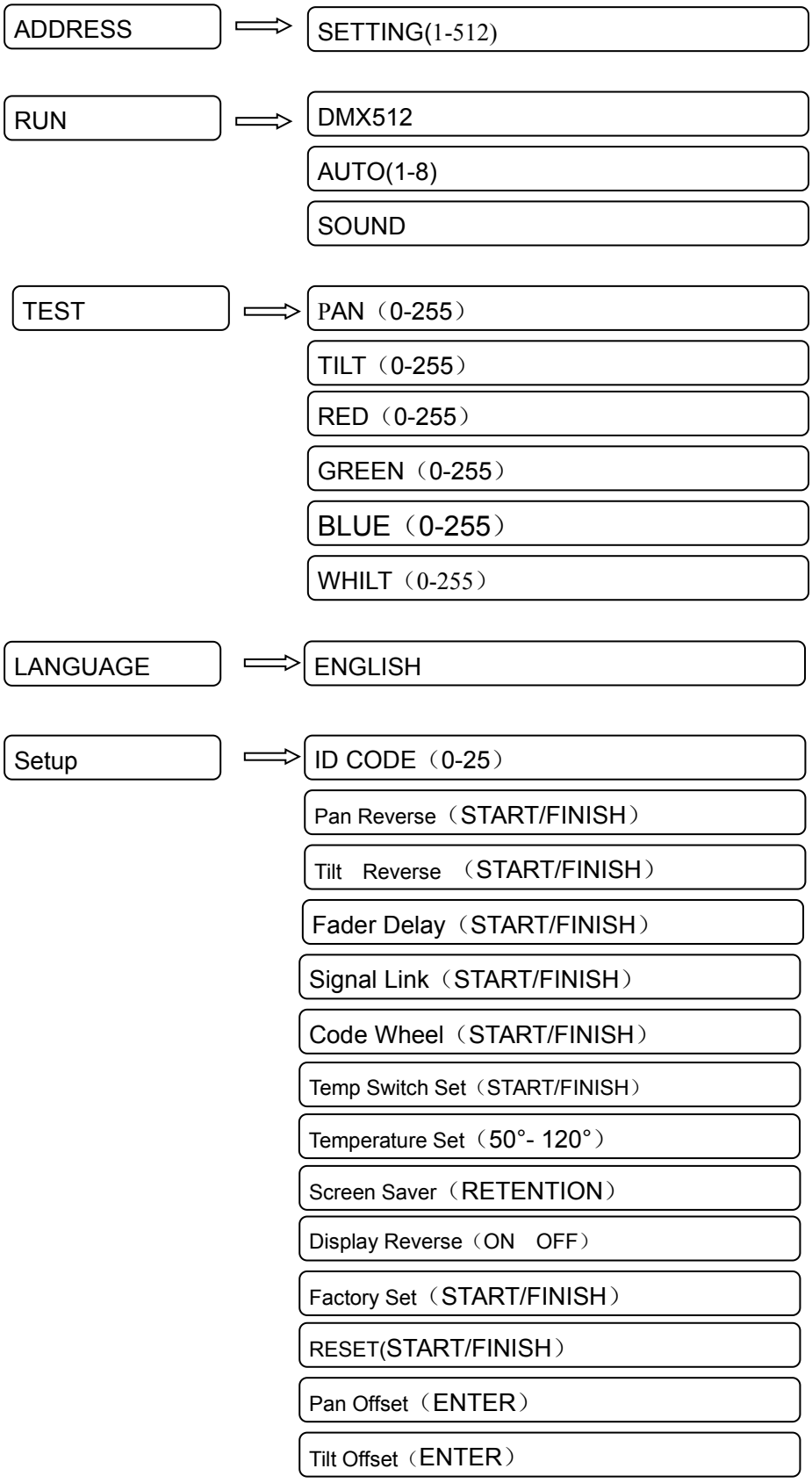
Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple
When serial this fixture linking .The cable should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.
DMX-512 connection with DMX terminator

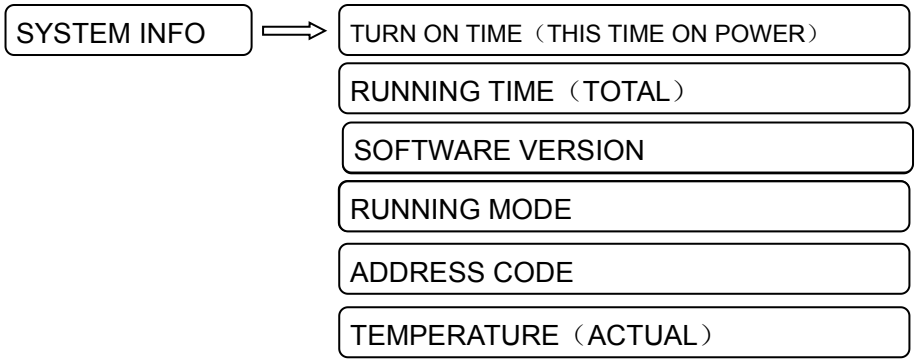


For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3,which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



6.Menu Operation





MAIN MENU

The user can control the cursor via button, with pressing “ENTER” to start setting.

DMX Add Setting

Submenu contains address setting, running mode, testing mode, language setting, advanced setting and system information, and the user can operate these modules according to soft button in the interface.

1) About address setting, the user should press ”YES/ENTER” to preserve address code and then return to main menu after setting done, or press “BACK” to cancel setting.
2) About running mode setting, the interface follows as picture 3,and it uses “√”to indicate the current mode（only one mode at a time）.When the user choose DMX512 and AUTO MODE, you can press “ENTER” to set various DMX512 or auto modes.
   - If the machine is set in DMX512,it also can be in SLAVE MODE at the same time. The mode can intelligently switch through different signal:DMX512 signal received,DMX512 MODE runs; host signal received, SLAVE MODE does.
   - About AUTO MODE, the AUTO MODE is also HOST MODE at the same time.
   - When the SOUND MODE runs, it is not HOST MODE.

3) **TEST** MODE. is a special mode that only if entering TEST interface, the user can operate this mode, and if quitting, the machine will restore the previous mode. In the TEST MODE, the user can adjust the location of Pan motor, Tilt motor and focus motor. TEST MODE has four-color brightness: RGBW which can be operated by 6th channel in DMX512.
4) **LANGUAGE SETTING**. Menu language can be set in English.(pic.5).
5) **Setup**
   - **ID CODE**. It can be applied to 15 channel in DMX15 MODE. When the value of channel 15 is more than 9,only if ID code corresponds to the first two number of channel 15,other channel’s number can

be effective.

- **Pan Reverse** SETTING
- **Tilt Reverse** SETTINGY
- **Fader Delay** When PUTTER DELAY starts, the dimmer of console fader becomes soft. PUTTER DELAY can decide whether start or not through console
- **Signal Link**-After SIGNAL CONNECTION starts, it will cut light when console signal closes.
- **Code Wheel-**If it closes, encoder disk will fail, and cannot record Pan/Tilt correct position. When it recovers from error track, the reset will switch from **Code Wheel-** into maximum stroke reset.
- **Temp Switch Set**-Switch with temperature protection function
- **Temperature Set**-Protection temperature, with the function, if the machine measure actual temperature is beyond protection temperature, the brightness effect will fall half.
- **Screen Saver.** The user can set CLOSE,MODE1, MODE2.When machine closes, it won't enter screen protection situation;MODE1,when display presentation finishes, it will be cleaned;MODE2,when machine enters display protection status, current address code will be display with large font. The user can touch the screen to cancel screen protection status, and return to main menu.
- **Display Reverse** can make the screen upside down180°.
- **Factory Set** is to set the parameter as the initial factory settings.
- **RESET**

- **Pan Offset**
- **Tilt Offset**,

5) **System**

display related information about system ,as picture 6 ,

- Turn-on time. The time is on electric power.
- RUNNING TIME, total lighting time.
- SOFTWARE VERSION. Program version currently in use.
- RUNNING MODE. The mode is running in current system.
- ADDRESS CODE
- TEMPERATURE - Temperature of light broad.

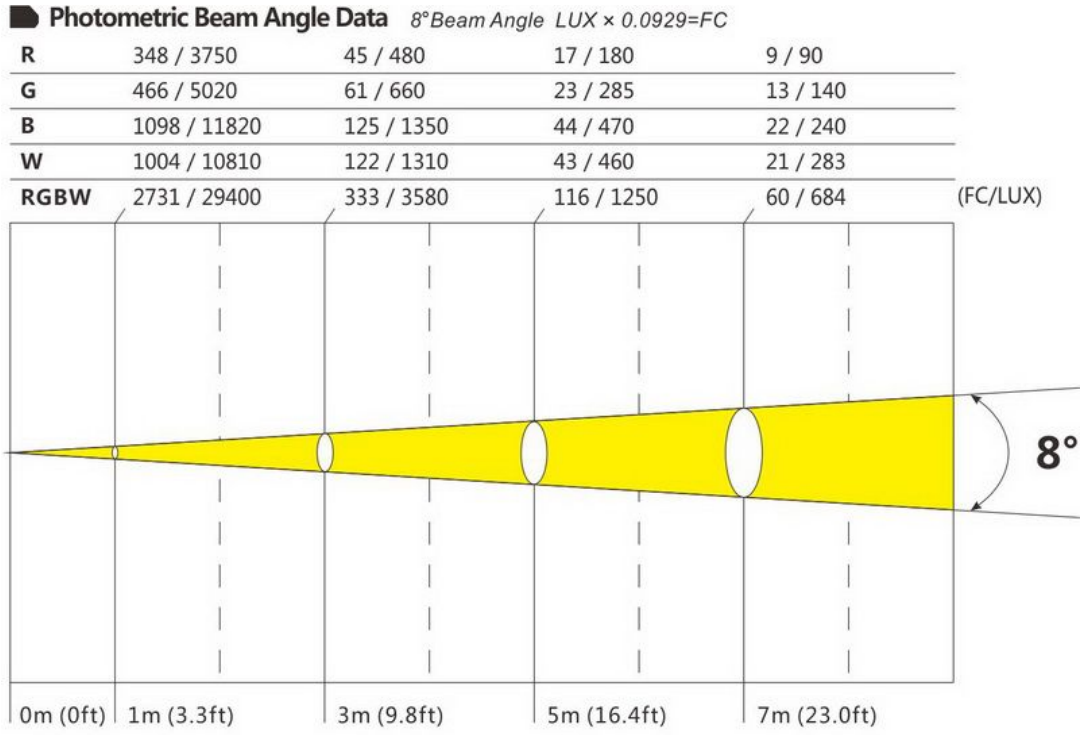
7. DMX 15 Channels

Chanel	Function	Values	Description
1	Dimmer	0-255	0-100% Linear dimmer from dark to bright
2	Red	0-255	0-100% red dimmer from dark to bright
3	Green	0-255	0-100% green dimmer from dark to bright
4	Blue	0-255	0-100% blue dimmer from dark to bright
5	White	0-255	0-100% white dimmer from dark to bright
6	Colors Choice	0-255	Colors changing effect
7	Pan	0-255	PAN Movement
8	Tilt	0-255	Tilt Movement
9	Pan Fine	0-255	Fine control of Pan movement 16Bit
10	Tilt Fine	0-255	Fine control of Tilt movement 16Bit
11	PAN/TILT Speed	0-255	Speed control of PAN/TILT (fast to slow)
12	Strobe Mode	0-15	Empty
		16-95	Normal speed strobe
		96-175	From fast to slowly
		176-255	From slowly to fast
13	Macros and Sound Control	0-010	CH1-CH11 Activated
		011-120	Colors jumping
		121-180	Colors fading
		181-209	Colors mixing and strobe
		210-250	Auto
		251-255	Sound control
14	Macros Speed	0-255	Speed of macros(slow to fast)
15	No function		

. DMX 11 Channels

Chanel	Function	Values	Description
1	Dimmer	0-255	0-100% Linear dimmer from dark to bright
2	Red	0-255	0-100% red dimmer from dark to bright
3	Green	0-255	0-100% green dimmer from dark to bright
4	Blue	0-255	0-100% blue dimmer from dark to bright
5	White	0-255	0-100% white dimmer from dark to bright
6	Colors Choice	0-255	Colors changing effect
7	Pan	0-255	PAN Movement
8	Tilt	0-255	Tilt Movement
9	Pan Fine	0-255	Fine control of Pan movement 16Bit
10	Tilt Fine	0-255	Fine control of Tilt movement 16Bit
11	PAN/TILT Speed	0-255	Speed control of PAN/TILT (fast to slow)

8. Photometric Data



9. Key Features

7PCS 15W 4-IN-1 LEDs (R,G,B,W)
60,000 hours life span for LEDs and low power consumption
Intelligent temperature sensor for LEDs(over heat protection)
High efficiency 8 degree optic lens
Color range with 16.7 millions additive RGBW colors
High light output as 860LUX@ 7M at full
0-100% smooth linear dimmer with flicker free
20t/s strobe effect with variable speed
Pre-programmed random strobe and pulse effects
11/15CH DMX channels
Built-in programs with macro effects
DMX512, master-slave and sound activated controllable or auto operation
High definition blue TFT LCD display
Quiet, smooth and fast PAN/TILT movement
Low noise and efficient FAN cooling system
540° PAN and 250° TILT movement
Scan position memory, auto reposition after unexpected movement
Compact size with only 4.9KG body and 310mm in height
IEC power connector
45℃ max ambient temperature
IP20 protection rating
3-Pin XLR DMX input/output

10. Specifications

Input Voltage: AC90-260V 50/60Hz
LED Quantities: 7 PCS of 15W 4-IN-1 LEDs (R, G, B, W)
Control Signal: DMX512, master-slave and sound activated or auto operation
Control Channel:11/ 15 DMX channels
Power Consumption: 120W
Dimensions: 152(L)*265(W)*310(H)mm
Packing Dimensions:260(L)*320(W)*335(H)mm
Net Weight: 5.5kg
Gross Weight: 7.5kg

11. Maintenance and Cleaning

The following points have to be considered during the inspection:
1. All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded. 2. There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing). 3. Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances. 4. The electric power supply cables must not show any damage, material fatigue or sediments.
Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

CAUTION!

Disconnect from mains before starting maintenance operation.

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights. 1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust. 2) Clean the fan each week. 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.
We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth. Never use alcohol or solvents. There are no serviceable parts inside the device. Please refer to the instructions under “Installation instructions”. Should you need any spare parts, please order genuine parts from your local dealer.